DT01 Rec'd PCT/PT0 1 5 OCT 2004

Attorney Docket No. 101137-56 Application No. Unknown Amendment Dated October 15, 2004

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Original) A method for modifying the properties of a fibrin matrix with respect to growth and ingrowth of cells, wherein for forming the fibrin matrix a fibrinogen is used consisting of a selected fibrinogen variant or a fibrinogen enriched or depleted in a selected fibrinogen variant.

Claim 2. (Original) A method according to claim 1, wherein angiogenesis properties of a fibrin matrix are modified.

Claim 3. (Currently Amended) A method according to claim 1 of 2, wherein the fibrinogen variant is selected from the group consisting of HMW fibrinogen, LMW fibrinogen, LMW' fibrinogen, Fib420 fibrinogen and gamma' fibrinogen.

Claim 4. (Currently Amended) A method according to any one of the preceding claims 1-3 claim 1, wherein a fibrin matrix is formed which leads to accelerated angiogenesis.

Claim 5. (Original) A method according to claim 4, wherein for forming the fibrin matrix a fibrinogen is used consisting of HMW fibrinogen or of a mixture of fibrinogen variants enriched in HMW fibrinogen or depleted in LMW fibrinogen and/or LMW' fibrinogen.

Claim 6. (Currently Amended) A method according to any one of claims 1-3 claim 1, wherein a fibrin matrix is formed which leads to decelerated angiogenesis.

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Claim 7. (Original) A method according to claim 6, wherein for forming the fibrin matrix a fibrinogen is used consisting of LMW fibrinogen or of a mixture of fibrinogen variants enriched in LMW fibrinogen or depleted in HMW fibrinogen.

Claim 8. (Original) A method according to claim 6, wherein for forming the fibrin matrix a fibrinogen is used consisting of LMW' fibrinogen or of a mixture of fibrinogen variants enriched in LMW' fibrinogen or depleted in HMW fibrinogen.

Claim 9. (Currently Amended) A method according to any one of claims 1-8 claim 1, wherein the fibrin matrix is formed *in vitro*, the fibrin matrix being formed by converting the fibrinogen by means of a suitable enzyme, such as thrombin, and optionally factor XIIIa and CaCl₂, into fibrin.

Claim 10. (Original) A method according to claim 9, wherein the fibrin matrix is used in an angiogenesis test.

Claim 11. (Currently Amended) A method according to any one of claims 1-8 claim 1, wherein the fibrin matrix is formed *in vivo*, the fibrinogen, optionally in combination with a suitable enzyme, such as thrombin, and optionally factor XIIIa and CaCl₂, being applied in the place where the formation of a fibrin matrix takes place.

Claim 12. (Original) A method according to claim 11, wherein the fibrinogen is applied to inhibit or prevent tumor growth, cicatrization, adhesions and the like, or to promote the healing of burns and other wounds.

Claim13. (Currently Amended) A method according to any one of claims 1-8 claim 1,

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wherein the fibrin matrix is formed *in vivo* from a fibrinogen in which the HMW/LMW and/or HMW/LMW' ratio is modulated by stimulating or inhibiting the conversion of HMW fibrinogen into LMW fibrinogen, such as within the scope of a treatment of post-thrombotic syndrome.

Claim14. (Original) A pharmaceutical composition, comprising fibrinogen and a pharmaceutically acceptable carrier, wherein the fibrinogen consists of a selected fibrinogen variant or a fibrinogen enriched or depleted in a fibrinogen variant.

Claim15. (Original) A pharmaceutical composition according to claim 14, wherein the fibrinogen consists of HMW fibrinogen or of a mixture of fibrinogen variants enriched in HMW fibrinogen or depleted in LMW en/of LMW' fibrinogen.

Claim16. (Original) A pharmaceutical composition according to claim 15, which is suitable for promoting wound healing, inhibiting or preventing cicatrization or treating burns.

Claim17. (Original) A pharmaceutical composition according to claim 14, wherein the fibrinogen consists of LMW fibrinogen or of a mixture of fibrinogen variants enriched in LMW fibrinogen or depleted in HMW fibrinogen.

Claim 18. (Original) A pharmaceutical composition according to claim 14, wherein the fibring en consists of LMW' fibring en or of a mixture of fibring en variants enriched in LMW' fibring en or depleted in HMW fibring en.

Claim19. (Currently Amended) A pharmaceutical composition according to claim 17 of 18, which is suitable for inhibiting or preventing tumor growth or adhesions.

Claim 20. (Original) A test kit, comprising components for the formation of a fibrin

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matrix, including fibrinogen, wherein the fibrinogen consists of a selected fibrinogen variant or a fibrinogen enriched or depleted in a selected fibrinogen variant.

Claim21. (Original) A test kit according to claim 20, wherein the fibrinogen consists of HMW fibrinogen or of a mixture of fibrinogen variants enriched in HMW fibrinogen or depleted in LMW and/or LMW' fibrinogen.

Claim22. (Currently Amended) A test kit according to claim 20 or 21, also comprising an enzyme suitable for forming fibrin from fibrinogen, such as thrombin, and optionally factor XIIIa and/or CaCl₂.

Claim 23. (Currently Amended) A test kit according to any one of claims 20-22 claim 20, also comprising components for effecting angiogenesis.

Claim 24. (Original) A test kit according to claim 23, comprising as components for effecting angiogenesis one or more angiogenic growth factors, such as fibroblast growth factor-2 (FGF-2) or vascular endothelial growth factor (VEGF), and/or tumor necrosis factor alpha (TNF-α), and/or cells, such as human endothelial cells.